	Application No.	Applicant(s)	
Notice of Allowability	09/918,814	ENENKEL ET AL.	- <b>V</b> -
	Examiner	Art Unit	
	Chat C. Do	2124	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>07/29/04</u> .			
2.  The allowed claim(s) is/are <u>2-10 and 12-17</u> .			
3. 🗵 The drawings filed on 29 July 2004 are accepted by the Examiner.			
4.			
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview St Paper No./ 98), 7. ☐ Examiner's	formal Patent Application (PTC ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo	

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## EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

- 1. Claims 1 and 11 are cancelled by applicant.
- 2. Claims 2-10 and 12-17 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render an obvious of a method and processor for performing a multiply-add instruction on a multiplicands and an addend wherein the result is being a canonical-form extended-precision floating point number having high and low order component comprising a control logic to compute the high and low order of the result based on the determination of the conditional differential values of the exponents as cited in an independent claim 2; the concatenation the high order word of the shifted mantissa of addend with a add-out value and determining if the normalized pre-dl value requires modification and modifying as required as cited in independent claims 5 and 14; and further supplied a selected predetermined value to an adder to decrement the low order word mantissa of the extended-precision result where the high order word mantissa of the extended-precision result is incremented by the rounder as cited in an independent claim 12.

The closest prior art found is Markstein et al. (U.S. 5,631,859). Markdstein et al. disclose a floating-point arithmetic unit having logic for quad precision arithmetic for performing multiplication and addition. However, Markstein et al. fails to provide detail limitations as cited above by the present invention including a control logic to compute the high and low order of the result based on the determination of the conditional

differential values of the exponents; the concatenation the high order word of the shifted mantissa of addend with a add-out value and determining if the normalized pre-dl value requires modification and modifying as required; and further supplied a selected predetermined value to an adder to decrement the low order word mantissa of the extended-precision result where the high order word mantissa of the extended-precision result is incremented by the rounder.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (703) 305-5655. The examiner can normally be reached on M => F from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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> Chat C. Do Examiner Art Unit 2124

September 18, 2004

KAKALI CHAKI SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100